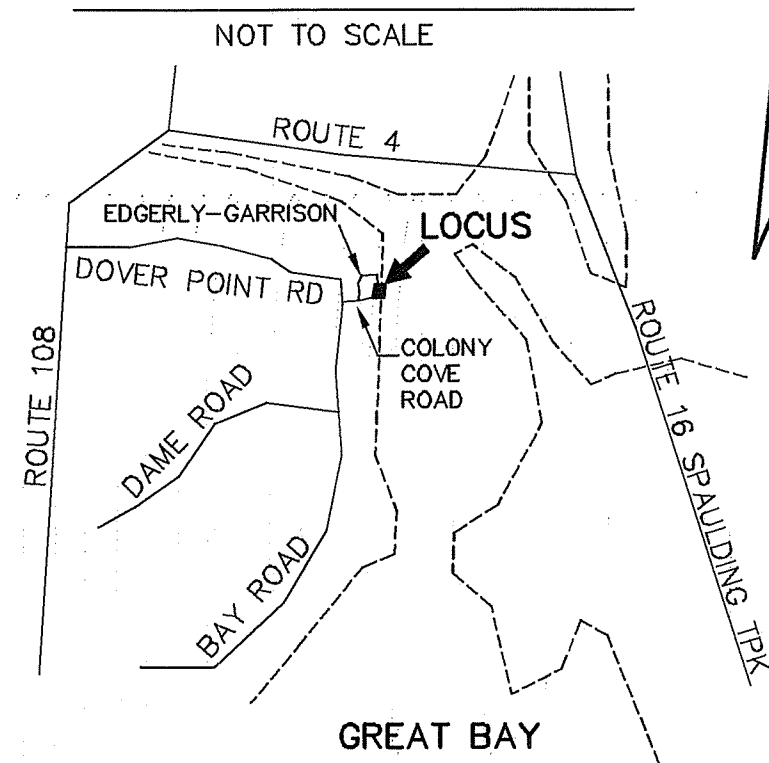


## LOCUS MAP

NOT TO SCALE



SOIL CLASS: HcC HOLLIS-CHARLTON

(SOURCE: USDA-SCS SOIL SURVEY)

BENCH MARKS: DATUM = APPROVAL 92352

#1 TOP OF FOUND IRON PIPE EL 28.33

#2 SET NAIL 1' UP TRIPLE MAPLE EL 29.39

#3 TOP END GRANITE STEP EL 23.92

### DESIGN INTENT:

- THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM SHALL BE CONSTRUCTED AT ELEVATION 27.5
- THERE IS/ARE APPROX. 30" FT BELOW EXISTING GROUND ON THE HIGH CONTOUR THE DESIGNED EDS. (EL.30) DESIGN PROPOSES TO MATCH BED BOTTOM OF EXISTING SYSTEM AS PREVIOUSLY APPROVED. SEE APPROVAL #92352.

### SUITABLE REPLACEMENT AREA:

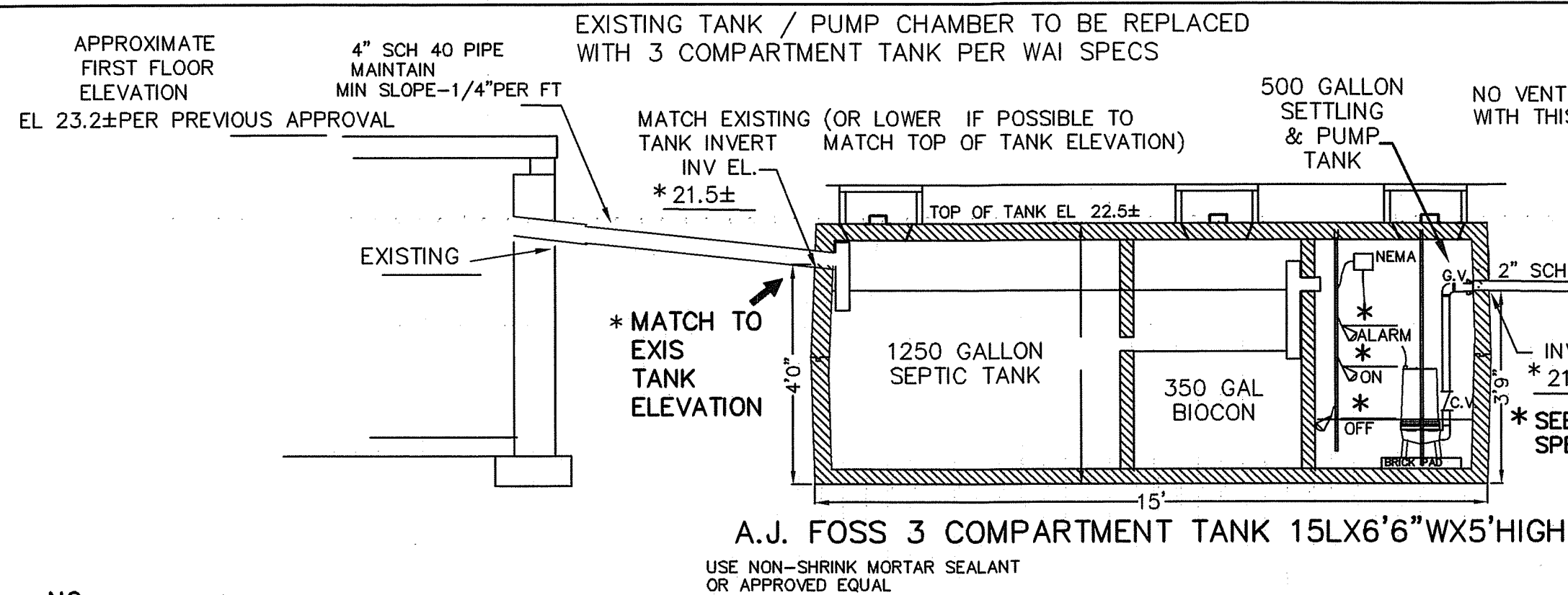
SYSTEM MUST BE REBUILT IN PLACE OR REDESIGNED.

### LEGEND:

- 50' (30') EXISTING CONTOUR  
50.0 PROPOSED CONTOUR  
50.0 EXISTING SPOT ELEVATION  
50.0 PROPOSED SPOT ELEVATION

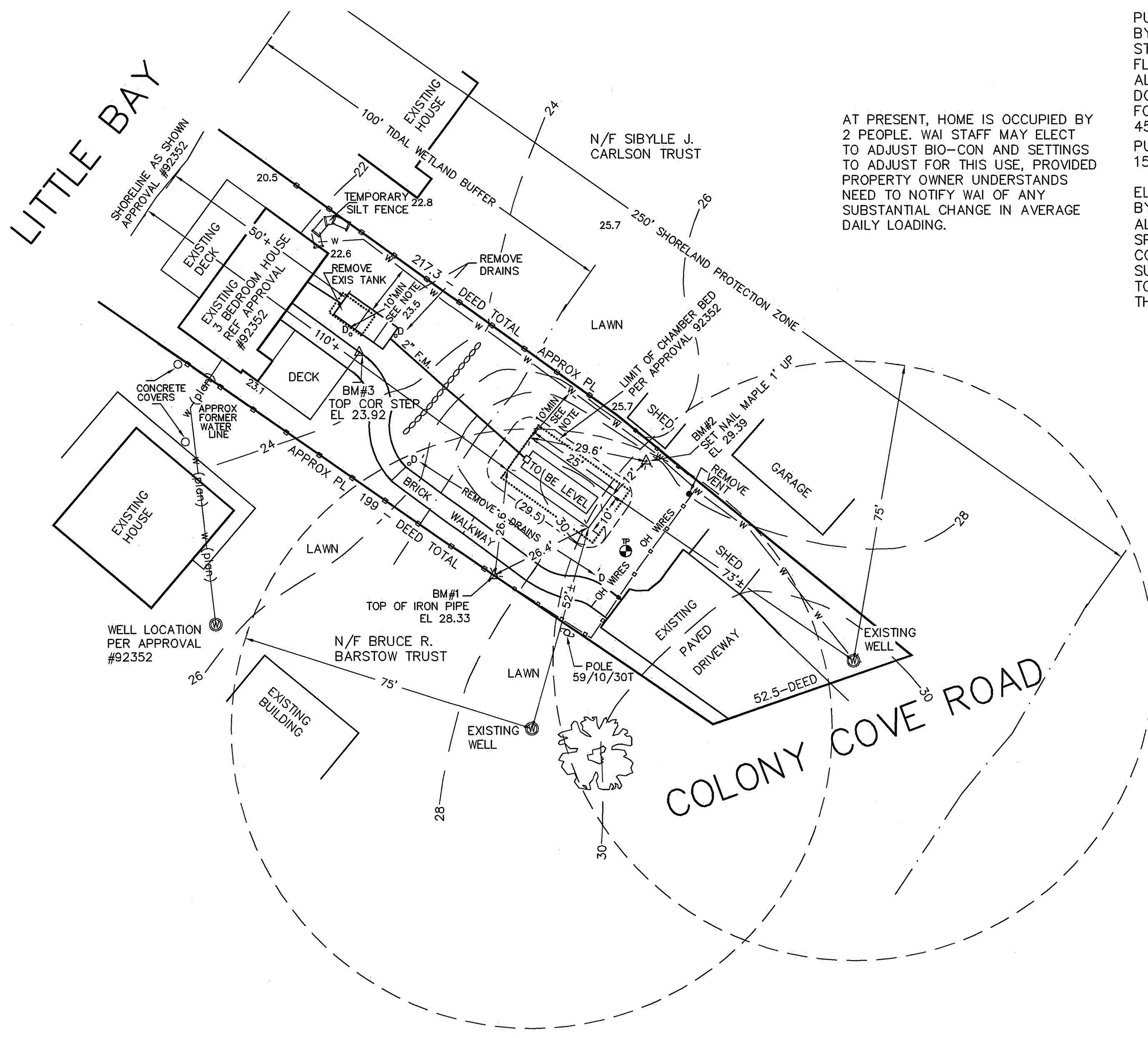
### NOTES:

- THIS PLAN IS NOT TO BE CONSTRUED AS A BOUNDARY SURVEY. PROPERTY LINES SHOWN ARE APPROXIMATED BASED ON INFORMATION FROM THE FOLLOWING SOURCE:  
SCRD 1119-630 AND OCCUPATION LINES
- NHDES-WS&PCD SUBDIVISION APPROVAL N/A LOT OF RECORD, REF APPROVAL#92352
- THIS SYSTEM IS NOT DESIGNED TO HANDLE GARBAGE DISPOSAL, JACUZZI BATH, OR SEWAGE EJECTOR PUMP WASTE. BACKWASH FROM WATER SOFTENER SYSTEMS SHOULD BE DISCHARGED TO A SEPARATE DRYWELL.
- WATER LINE NOTE: EXISTING WATER LINE LOCATION IS AS REPORTED BY OWNER. DUE TO PROXIMITY TO BOUNDARY FENCES AND TREES ALONG PROPERTY LINE, A WAIVER IS REQUESTED TO ALLOW WATER LINE TO REMAIN IN PLACE SUBJECT TO VERIFICATION THAT IT IS AT LEAST 10' FROM SYSTEM COMPONENTS
- BOTH WELLS SHOWN POST-DATE EXISTING SYSTEM. A WAIVER IS REQUESTED TO REPLACE SYSTEM IN SAME (PREVIOUSLY APPROVED) LOCATION AS NO OTHER VIABLE ALTERNATIVE EXISTS.
- REFERENCE SHORELAND PROTECTION RULE ENV-WQ 1406.04(d)(8) BY WHICH REPLACEMENT OF A FAILED SEPTIC SYSTEM WITH NO INCREASE IN LOADING DOES NOT REQUIRE A SHORELAND PERMIT.
- WETLANDS BUREAU STAFF HAVE BEEN CONSULTED AND HAVE DECLINED JURISDICTION OVER THIS PROJECT.
- a) NO SURFACE WATER WITHIN 100' OF PROPOSED  
b) NO WELLS WITHIN 50' OF DISPERSED  
c) NO HYDRIC B SOILS WITHIN 50' OF DISPERSED  
d) NO HYDRIC A SOILS WITHIN 75' OF AREA
- DESIGNER MUST BE CONSULTED FOR ANY PROPOSED CHANGES OR ERRORS/DISCREPANCIES FOUND DURING SYSTEM INSTALLATION. (603 929-7404)  
INSTALLER IS RESPONSIBLE FOR ANY TOWN PERMITS OR INSPECTIONS REQUIRED FOR THIS INSTALLATION.



## CROSS SECTION DISPOSAL SYSTEM – NOT TO SCALE

PLAN : 1"=20'



AT PRESENT, HOME IS OCCUPIED BY 2 PEOPLE. WAI STAFF MAY ELECT TO ADJUST BIO-CON AND SETTINGS TO ADJUST FOR THIS USE, PROVIDED PROPERTY OWNER UNDERSTANDS NEED TO NOTIFY WAI OF ANY SUBSTANTIAL CHANGE IN AVERAGE DAILY LOADING.

## PUMP SPECIFICATIONS

PUMP SELECTION AND PIPING BY WASTEWATER ALTERNATIVES. STA-RITE EC 440 4/10 HP FLOATS TO BE SET TO WASTEWATER ALTERNATIVES SPECIFICATIONS FOR DOSAGE OF 100 GALLONS PER CYCLE FOR 4.5 CYCLES PER DAY BASED ON 450 GPD DESIGN LOADING.

PUMP WILL DELIVER APPROX 45 GPM AT 15± TDH WITH 2 MIN+ EST RUNNING TIME.

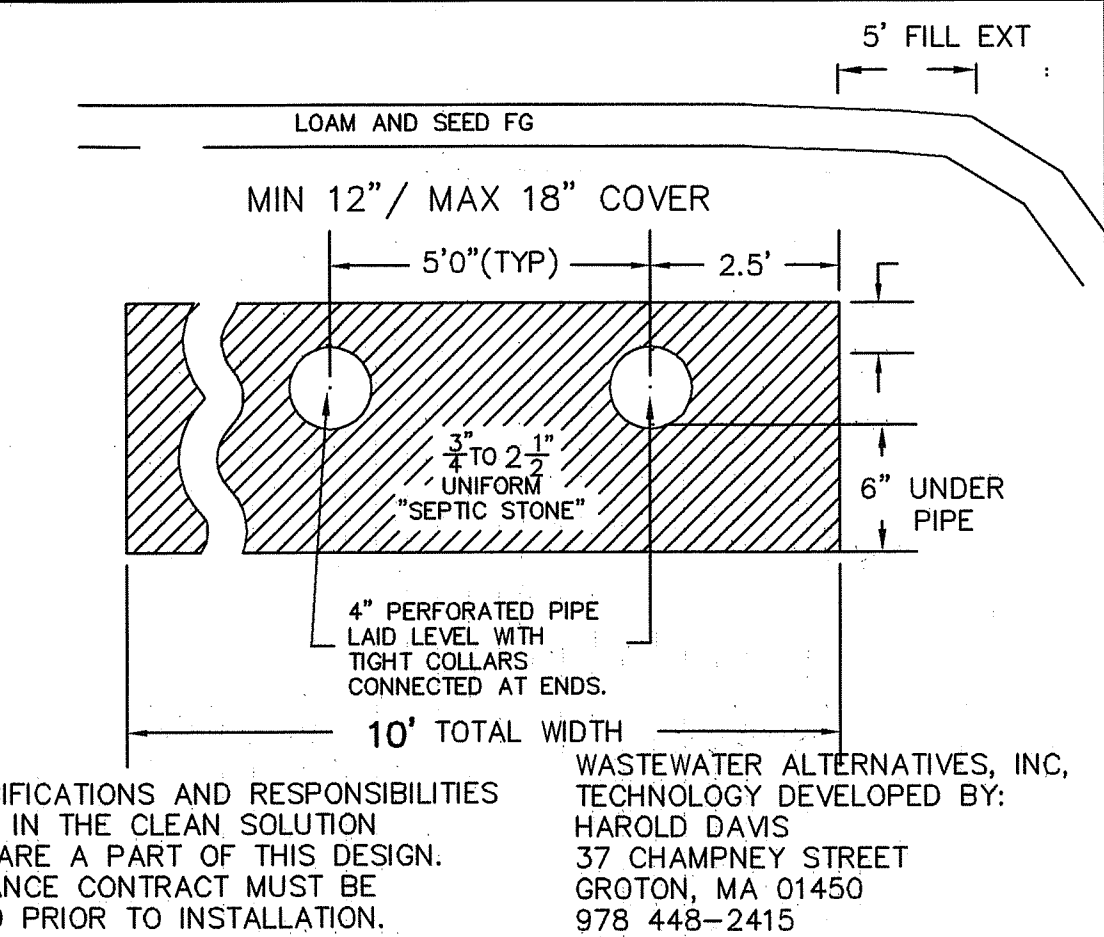
ELECTRICAL CONTROLS MUST BE APPROVED BY PUMP MANUFACTURER. ALL WASTEWATER ALTERNATIVES SPECIFICATIONS AS OUTLINED IN THE CONTRACT AND MAINTENANCE AGREEMENT SUBMITTED WITH THIS APPLICATION ARE TO BE CONSIDERED AN INTEGRAL PART OF THIS PLAN.

NOTE: EXISTING SYSTEM FAILURE EVIDENCED BY OBSERVED SURFACE BLEEDOUT IN CHAMBER FIELD AND REPORT FROM PUMPER THAT SEPTIC TANK WAS NOT FUNCTIONAL DUE TO ROOT INFILTRATION.

SYSTEM OWNER IS RESPONSIBLE FOR THE FOLLOWING OPERATING REQUIREMENTS MAINTENANCE CONTRACT SUBMITTED WITH APPLICATION FOR SYSTEM APPROVAL.

ENV-WS 1023.01 (a) SEPTIC TANKS SHALL BE INSPECTED FOR ACCUMULATION OF SLUDGE AND SURFACE SCUM AT LEAST ONCE EVERY YEAR.  
(b) WHEN THE COMBINED THICKNESS OF SLUDGE AND SURFACE SCUM EQUAL 1/3 OR MORE OF THE TANK DEPTH, THE TANK SHALL BE PUMPED BY A LICENSED SEPTIC TANK PUMPER.  
ENV-WS 1023.02 TO PREVENT OBSTRUCTION OF THE DISTRIBUTION LINES AND LEACH FIELD, GREASE AND BULKY WASTE SHALL NOT BE FLUSHED OR OTHERWISE INTRODUCED INTO THE SEPTIC SYSTEM.

ENV-WS 1023.03 TOXIC AND HAZARDOUS MATERIALS SHALL NOT BE FLUSHED OR OTHERWISE INTRODUCED INTO THE SEPTIC SYSTEM.  
ENV-WS 1023.04 TO PREVENT DAMAGE TO THE DISTRIBUTION LINES AND LEACH FIELD, VEHICLES, LIVESTOCK, AND OTHER HEAVY OBJECTS SHALL NOT BE ALLOWED ON THE LEACH FIELD.  
ENV-WS 1023.05 IF WET AREAS APPEAR ON THE GROUND SURFACE ABOVE THE DISTRIBUTION LINES OR LEACH FIELD OR IF DISAGREEABLE ODORS OCCUR, THE SYSTEM SHALL BE INSPECTED FOR THE SOURCE OF THESE PROBLEMS, AND CORRECTIVE ACTION SHALL BE TAKEN.



## TEST PIT DATA

DATE: APRIL 27, 2009

TOWN INSPECTOR: TOM JOHNSON

### TEST PIT #1 EL 29.3

0-12" 10YR3/4 FINE SANDY LOAM TOPSOIL  
12-24" 10YR5/4 FINE-MEDIUM SAND, GRANULAR FRIABLE  
24-30" 10YR3/4 FINE SANDY LOAM, ORIGINAL TOPSOIL  
30-56" 2.5Y5/6 FINE SANDY LOAM, MASSIVE FRIABLE

NO EVIDENCE OF SHWT TO 56", GOOD ROOTS TO 56", NO OBSERVED WATER, NO REFUSAL

DEPTH OF PIT IS SUFFICIENT TO VERIFY THAT PROPOSED BED BOTTOM EXCEEDS MIN 2' REQUIREMENT FOR REPLACEMENT. NOTE THAT BED ELEVATION AS PROPOSED MATCHES PREVIOUSLY APPROVED DESIGN FOR 4' SEPARATION.

## PERC TEST DATA

PERCOLATION RATE FROM PREVIOUS APPROVAL – 8 MIN/IN (NOT A DETERMINATIVE FACTOR FOR CLEAN SOLUTION SYSTEM)

DESIGN LOADING: EXISTING 3 BEDROOM HOUSE

AREA REQUIRED: PER CLEAN SOLUTION SPECIFICATIONS: MINIMUM 100 SF DISPERSED AREA REQUIRED

AREA PROPOSED: 10' X 25' = 250 SF PROVIDED

## PROPOSED REPLACEMENT SEPTIC SYSTEM PLAN

EXISTING FAILED SYSTEM

LOCUS: 28 COLONY COVE ROAD

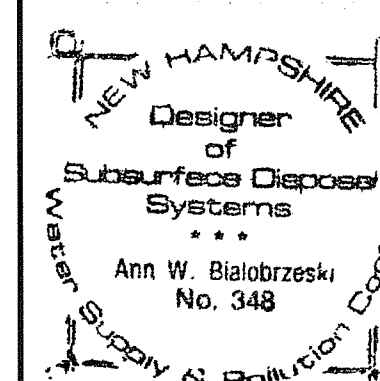
TAX MAP 12-24-2

DURHAM, NH

OWNER: JOHN AND NANCY NELSON

28 COLONY COVE ROAD

DURHAM, NH 03824



APPLICANT: STOCKTON SERVICES  
PO BOX 1306  
HAMPTON, NH 03842  
603 929-7404

DATE: MAY 6, 2009

APPROVAL: CA2009097056